

**Amendments to the Specification**

Please replace the paragraph at page 12, lines 1 through 5, with the following amended paragraph:

A three wavelength sensor 86 is shown in Figure 4. The sensor ~~36~~ 86 has three distinct sensors 88, 90, and 92. Each sensor is an IDED sensor with a driven electrode and a sensing electrode. In a preferred embodiment, the wavelength of the sensors 88, 90, and 92 are 2.5 mm, 5 mm, and 1 mm respectively. The three wavelength sensor is used for heterogeneous media, spatial profiles of dielectric properties or layer thickness.

Please replace the paragraph at page 27, lines 18 through 26, with the following amended paragraph:

The configuration of Figure 18A is significantly different than those proposed in the prior art. U.S. Patent 4,814,690 by Melcher et al. discloses switching the individual elements of the interdigitated structure between driven and sensing to vary the fundamental wavelength of the measurement, this requires a switch for every element in the sensor, while the configuration of Figure 18 only requires switches to be placed at the terminals. The configuration of Figures 18A and 18B switches the roles of the drive, sense, and guard electrodes to intentionally vary the penetration depths of the electric field. A switching device 130 connects the sensor ~~122~~ 120 to the admittance analyzer 44.